



Engineering ACADEMY

News about a Career-Technical Education Program from the Six District Educational Compact



Both Level I and Level II students attended the International Elastomer Conference, 2019.



Students speak with a business representative at the International Elastomer Conference, where they were given special access to the showroom floor. From left: Josh Hasinski, Stow-Munroe Falls; Colton Bramer, Cuyahoga Falls; Brett Erhard, Cuyahoga Falls; Ben Wagner, Hudson; Caleb Benci, Stow-Munroe Falls; Marcelo Shocky, Stow-Munroe Falls; and Ethan Hearty, Stow-Munroe Falls.



Students mix polymers together to make an elastomer or bouncy ball at the International Elastomer Conference, 2019. From left, T. J. Pockl, Stow-Munroe Falls; Max Van Orman, Stow-Munroe Falls; and Umi Turonov, Stow-Munroe Falls.

Seeing demonstrations at the Elastomer Conference

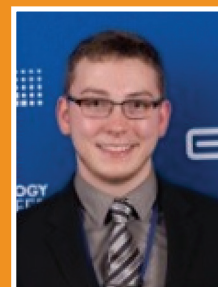
Both Level I and Level II Engineering Academy students attended the 2019 Cleveland International Elastomer Conference held at the Huntington Convention Center in Cleveland.

Students participated in hands-on demonstrations and experiments led by local Akron Development Laboratories (ARDL) employees to learn about polymer properties of elastomers.

Students also were given special permission to visit the Conference floor and interact with the global vendors, who were demonstrating the latest technology in the polymer field. Engineering Academy students spent more than an hour talking with the representatives from large corporations to see what the company produces or products they sell.

Meet a completer

Andrew Borsi, Nuclear Engineer



Andrew Borsi, a Stow-Munroe Falls graduate and 2013 completer of the Engineering Academy, made a presentation in September to current students about his career path in Nuclear Engineering.

Andrew graduated from The University of Akron with a Bachelor of Science degree in Electrical Engineering in 2018. He began working at FirstEnergy Nuclear Operating Company (FENOC), where he leads projects to develop state-of-the-art, risk-informed applications. His goal is to ultimately reduce operating costs and regulatory burdens while improving nuclear safety margins.

Andrew's presentation to the Engineering Academy included a discussion of the process of Nuclear Engineering, as well as industry standards and safety. Andrew shared his educational path, including his studies in the Academy, his transition to The University of Akron and his journey toward a career at FirstEnergy.

Andrew says, "The Engineering Academy provided me with the tools I needed to succeed in my college career. The most important of those skills was technical writing, which I have come to learn is the most important aspect of engineering activities: writing things down."

He continues, "Being introduced to multiple engineering disciplines helped point me in the right direction when I chose a college major and even helped me when faced with problems outside the academic realm."



Six District Educational Compact

Cuyahoga Falls • Hudson • Kent • Stow-Munroe Falls • Tallmadge • Woodridge

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Annual worksite visits to Bridgestone, Goodyear

Engineering Academy students took part in an annual worksite visit to Bridgestone Americas Technical Center located in Akron. The group toured the Engineering Department after learning a brief history of the company.

Students saw how CAD software is used in the tire industry and learned about the various types of tires produced from Indy Cars to giant farm tractor tires.

Academy students also made an annual field trip to Goodyear Tire & Rubber Company's global headquarters in Akron. They saw a demonstration of how the tire has evolved over the last 100+ years and heard how the field of engineering has changed.

Goodyear employees talked about additive manufacturing (3D printing) machines and demonstrated how they are used in industry to build prototypes or models to share with potential clients. Representatives also talked to the students about how they use 3D printers to make custom parts for assembly line machines.



Engineering Academy students visit Washkewicz College of Engineering at Cleveland State University.

Tour of new Engineering building at Cleveland State

All Engineering Academy students had the opportunity to visit the brand new Washkewicz College of Engineering building at Cleveland State University.

Students were given a tour of campus and saw the new state-of-the-art facilities in the College of Engineering.

They also heard testimonials from two 2016 Engineering Academy completers, **Megan Keleman**, Stow-Munroe Falls, and **Marcus Wilde**, Stow-Munroe Falls, who led an activity for the students. Both Megan and Marcus now work as ambassadors for the College of Engineering.



Level I Engineering Academy students tour the UA campus.

Seeing all the options at The University of Akron

Level I Engineering Academy students toured the College of Engineering at The University of Akron in the fall. At the College of Engineering, students learned about the Donovan Design Center, which includes the Formula Car Team, Civil Engineering Design Room, which includes Concrete Canoe Team and/or Steel Bridge Team, Chemical Engineering Laboratory and Polymer Science.



Megan Braeutigam, Tallmadge



Madison Kaufman, Tallmadge



Joe Gavriloff, Roosevelt, with Jackson McMinn-Hyde, Tallmadge, behind him.

Carving a pumpkin the AutoCAD way

Level I Engineering Academy students drew a 2D design in AutoCAD and then programmed the water jet to carve their design in a pumpkin.